

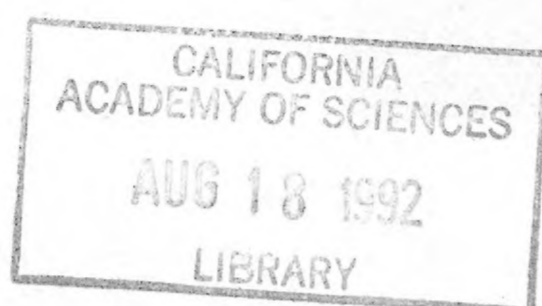
The

ACADEMY

NEWSLETTER

THE CALIFORNIA ACADEMY OF SCIENCES IS DEDICATED TO SCIENTIFIC RESEARCH AND EDUCATION, INSPIRING RESPECT FOR THE NATURAL WORLD.

This is your Academy
Newsletter with a new look!
We've been listening to your
suggestions and hope you
enjoy our exciting, improved
design!



ACADEMY TRAVEL TRINIDAD & TOBAGO ADVENTURE

LED BY DR. FRANK ALMEDA. FEBRUARY
16-27, WITH VENEZUELA EXTENSION
TO MARCH 5.

The Academy's acclaimed *Celebrate! Caribbean Festival Arts* exhibit inspired us in planning this exciting tour. Timed to coincide with Carnival, we hope to witness colorful and exciting scenes! Our main focus will be the islands' richly diverse and brilliantly colored natural history. Some splendid sights await: the spectacular flight of the scarlet ibis; flocks of red-billed macaws at dusk; and forests of giant bamboo carpeted with ferns. From our base—the renowned Asa Wright Nature Centre—we'll explore tropical forests, savannahs, wetlands and seashore. On Tobago we'll stay at the aptly named Blue Waters Inn and take a glass-bottom boat across a coral reef to Little Tobago, also known as "Bird of Paradise Island."

An extension to Venezuela takes us to two distinct areas: Canaima National Park, home of the world's highest waterfall, Angel Falls, and ancient table-topped mountains, *tepui*s; and also to the central plains, *llanos*, to stay on a working ranch and nature reserve, where we will look for jaguars, pumas, giant water otters, fish-eating bats and many other rare species. Frank Almeda's trips fill fast! So, call the Travel Office now at 750-7222. Cost is \$2,200 plus airfare, and the Venezuela extension is an additional \$2,190. (Still space on our October Guatemala trip and our November Patagonia trip.)



MEMBERS MEETINGS

INSECTS: FRIEND OR FOE?

NEW ANSWERS FOR AGRICULTURAL PEST MANAGEMENT

With Dr. Stephen Welter, Wednesday, September 9, 2 pm & 7:30 pm

Thursday, September 10, 7:30 pm

In September's Members Meetings, Dr. Stephen Welter will discuss trends and new alternatives to pesticide-dominated agriculture. An Associate Professor at UC Berkeley, Dr. Welter will explore current high-input systems and the potential shift to more traditional pest management programs. Topics will include the use of non-chemical alternatives to disrupt pest insect mating, the management of natural enemies of insect pests, and the possible role of wild crop plants in reducing pesticide use. Dr. Welter will discuss the importance of maintaining biodiversity as agricultural objectives shift.

Dr. Stephen Welter, a native Californian, has been with the UC Berkeley Department of Entomological Sciences since 1984.

Join us next month for **Members Open House** on October 14th and 15th from 6-9 pm.

ADULT AND FAMILY EDUCATION

The Faces of a Yosemite Autumn

Join naturalists Joe Mueller and Bill Randolph as our group explores Yosemite National Park, when the air is fresh and clear, and the summer crowds have gone home. We'll look at this extraordinary area's geology, life-zone ecology, wildlife, and Native American heritage. Day trips include hikes at Glacier Point, Tuolumne Meadows, Yosemite Valley, and a night hike to call in owls. We will travel by bus with accommodations at Yosemite Lodge, box lunches provided. October 1-4. Cost is \$350 members/\$400 non-members.

Pepperwood Land- scapes in Watercolor

Paint to your heart's content at this two-day watercolor workshop amidst the rolling hills and open meadows of the Academy's nature preserve near Santa Rosa. Join instructor Vesta Kirby in capturing this inspiring landscape with expressive brush strokes and watercolor techniques, including wet and dry washes and glazing. Beginners and experienced watercolorists are welcome. We'll camp Saturday evening at Pepperwood (indoor kitchen and shower facilities provided). Nearby lodging available in Santa Rosa. September 12 and 13. Cost is \$95 members/\$110 non-members. Call 750-7098 for more information about these and other courses.





"EXPLORING THE UNIVERSE"

LECTURE SERIES—From their capitol in Cuzco, the Inca controlled an empire that ran the length of the Andes. Throughout the conquered lands they constructed temples to the paramount deity, Inti, the sun, and paid homage to the moon and stars. By studying the pristine sites of Machu Picchu and Cuzco, Vitcos and Pisac, much has been learned about the cosmology of the Incan empire.

On **SEPTEMBER 22 at 7:30 pm**, the Morrison Planetarium will present "**Astronomy and Ritual in the Andes: Archaeoastronomy of the Incas**" with astrophysicist Dr. David Dearborn of the Lawrence Livermore National Laboratory. Dr. Dearborn recently returned from his sixth season in Peru and will describe his search for clues to the astronomical practices of the Inca and its place in their culture.



Other talks in the series include:

OCTOBER 6—"HST: Back from the Dead!" (Scientific discoveries from the Hubble Space Telescope). Dr. Sandra Faber, UC Santa Cruz, Lick Observatory.

NOVEMBER 17—"SETI: The Search Begins." Dr. Jill Tarter, SETI Institute.

DECEMBER 15—"Journey to the Red Planet." Dr. Geoffrey Briggs, Center for Mars Exploration, NASA Ames Research Center.

All programs begin at 7:30 pm in the Planetarium. Tickets are \$2 each. Please use the coupon on the back page to order your tickets. Call the "Universe" line for more information at 750-7129.

SKY SHOWS

The Morrison Planetarium's summer schedule continues through September 7th with 30-minute shows every hour starting at noon. This show schedule also will be in effect on the weekend of the 12th and 13th.

From the 8th-11th, "Explorations," a show documenting humanity's quest to explore, will be shown at 2 pm. From September 14th-17th the Planetarium will be closed.

It will reopen on the 18th with a new show, "Planetarium on Parade." This new program celebrates the 40th Anniversary of the Morrison Planetarium, highlighting the history of the planetarium, its uniqueness, and some exciting new ideas for its future. This show will be presented at 2 pm on weekdays, and every hour starting at 1 pm on weekends. "Startalk" will continue to be shown at noon on weekends. Call 750-7141 for more information.

FRANK AND MARGARET ADELSTEIN FUND CREATED

Roy Eisenhardt, Executive Director, is honored to announce the formation of the Frank and Margaret Adelstein Education Fund. This fund, which will exceed \$2 million, will allow the Academy to sustain its leadership role in education in the natural sciences for children, parents and teachers. In establishing this fund Mr. Adelstein said, "Education is what the Academy is about. Margaret and I want to help future generations of children to understand the natural world."

The Adelsteins are long-term members and donors of the Academy. Mr. Adelstein worked in the City Controller's Office for 35 years. An active investor, he attributes much of his investment success to tax-free bonds. Mrs. Adelstein worked for the Department of Agriculture in San Francisco for 30 years. They both retired on the same day and have enjoyed their retirement years travelling extensively.

The Adelstein's generosity has been inspired by their long association with the Academy. One of Frank's most memorable experiences occurred when he was sixteen. He was walking home through the park late at night when suddenly, from the darkness, came the roar and bark of nearby wild animals. Terrified, he sprinted for home. Later he realized that it was those noisy seals in the Aquarium!

The Academy is indeed grateful for the Adelstein's lifetime of interest and support. Mr. Eisenhardt noted. "This is the largest gift which has been committed to our educational programs in recent years. The Adelstein's generosity, as that of our many historical donors, makes our institution capable of achieving its mission. They have our heartfelt gratitude."



Charlotte Florito

TRADITIONAL ARTS

Travel to the far corners of the world with the Academy's Traditional Arts program. These performances are held at 1 pm on Saturdays in the Planetarium or Wattis Hall of Human Cultures. Call 750-7164 for more information.

SEPTEMBER 5 — NO PROGRAM

SEPTEMBER 12 — Jerry Duke presents a lively program of traditional traditions featuring folk instruments and music, yodeling and dance forms such as clogging, jigs and buck dancing.

SEPTEMBER 19 — Danny Kalanduyan demonstrates Filipino kulingtang instruments—sets of bronze gongs typically played in the predominantly Muslim islands of the southern Philippines.

SEPTEMBER 26 — Known primarily for his repertoire of British ballads, Jonathan Goodwin performs songs, sea shanties, and stories focusing on local maritime history and the famous Barbary Coast.

PEPPERWOOD VOLUNTEERS NEEDED

Mark your calendar for upcoming volunteer work days at the Academy's 3,117 acre Sonoma County nature preserve. Work is light and congenial, and the day ends with a potluck dinner at Pepperwood's guest house. Tasks may include: removing non-native plants, putting up fences to protect springs from cattle and feral pigs, cutting brush along trails, or removing dead fences. Fall dates are September 5, October 10, November 22, and December 5. Call the volunteer office at 750-7154 for details.



L E C T U R E S

For the following lectures please use the coupon on the back page to order your tickets. Call 750-7128 for recorded lecture information.

"BETWEEN EARTH AND SKY" SEPTEMBER 2, 7:30 PM

SPECIAL PROGRAM "MEDITERRANEAN FOODS AND WINES" FOUR MONDAYS, STARTING SEPTEMBER 28, 7-9 PM

Exploring the wonderful culinary traditions of Greece and the islands, this special four-part program will feature the foods and wines of this arid landscape. In rural Greece, much of life remains tied to the earth and its cycles. "The old ways prevail, and foods are produced to taste wonderful, to nourish families, to celebrate life," says Sotiris Kitrilakis, founder of Peloponnese food products.

On **September 28th**, Kitrilakis will introduce this program and discuss the wine and olives of this ancient part of the world.

On **October 5th**, Angel Stoyanof, the chef at Stoyanof's Restaurant, will discuss baking. He will talk about pitas, breads, sweets and, his specialty, working with phyllo dough.

On **October 12th**, Jeanne Quan and Lidia Kitrilakis will explore the use of sheep's milk and dairy products in the cooking of the Mediterranean.

On **October 19th**, the program concludes with a discussion by all four lecturers on the healthful aspects of Mediterranean cuisine, and where Bay Area residents can find these ingredients.

Each lecture will be followed by a simple, but delicious, wine and food tasting. All programs are in the Goethe Room.

TICKETS—MEMBERS \$60
NON-MEMBERS \$70

"FOOD FOR THE GODS" THURSDAY, OCTOBER 8, 7:30 PM

Behind the carnival masks and music of the African/Atlantic world, are the gods of the religions of the African diaspora. Whether called *orixa* in Brazil, *orisha* in Cuba, *loa* in Haiti, or *santos* or saints, these gods have been venerated in this hemisphere since the arrival of the first Africans.

Over the centuries, these forces have been invoked and appeased with food and drink, as well as music and dance. In this special lecture, Jessica B. Harris will examine the foods for the gods of the African/Atlantic world, their sacralization and secularization in Brazil, Haiti and Cuba. She will discuss how these foods have become a major thread in the culture of the African/Atlantic world.

Ms. Harris is the author of four cookbooks, including the recently published, *Tasting Brazil: Regional Recipes and Reminiscences*.

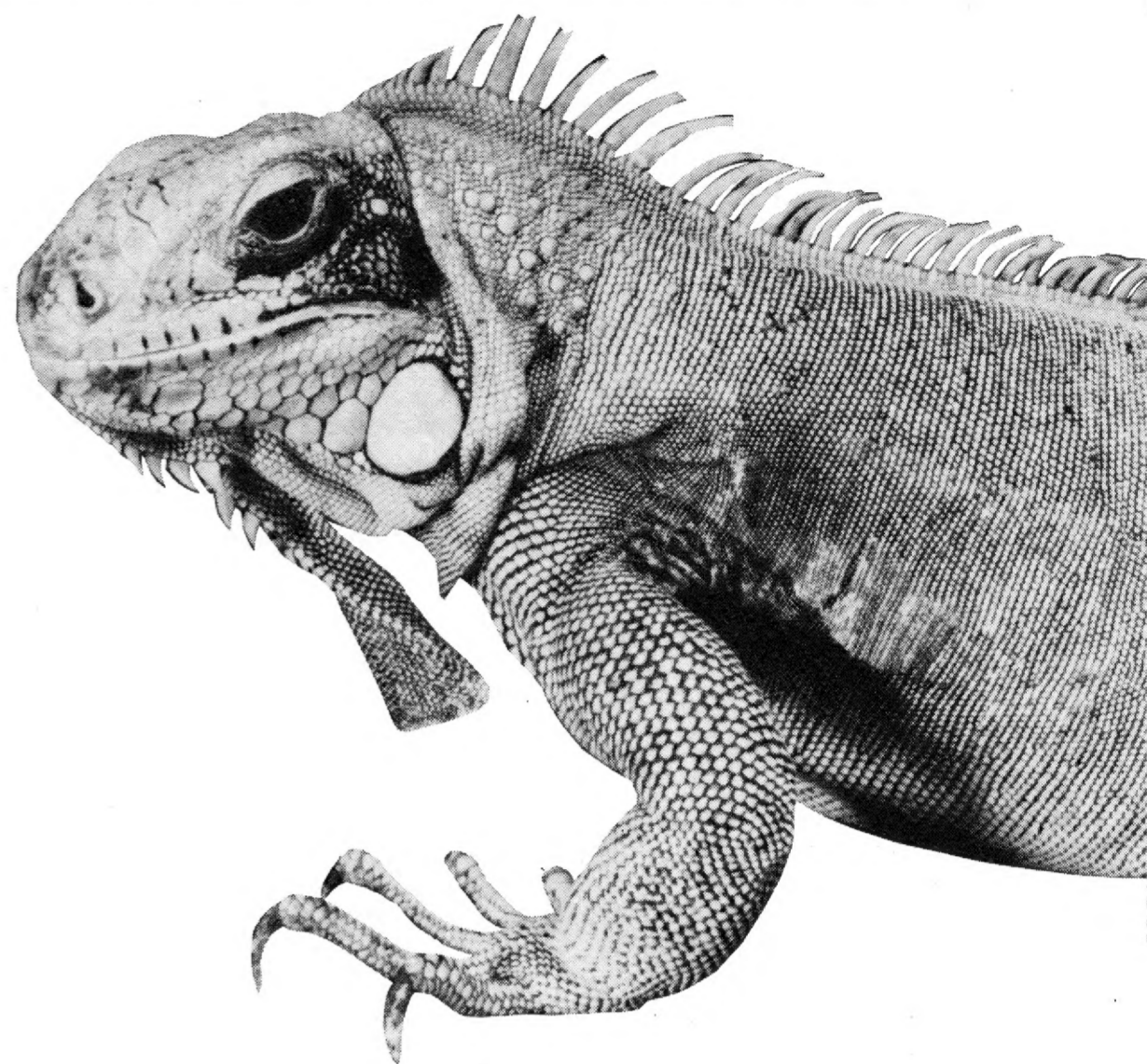
TICKETS—MEMBERS \$5/NON-MEMBERS \$7

"MOVING THE STREETS INDOORS—THE MAKING OF CELEBRATE! CARIBBEAN FESTIVAL ARTS" WITH DR. JUDITH BETTELHEIM TUESDAY, OCTOBER 20, 7:30 PM

Dr. Judith Bettelheim co-curated the exhibit, *Celebrate! Caribbean Festival Arts*, and co-authored the exhibit catalog with John Nunley of the St. Louis Art Museum. This impressive exhibit travelled throughout the continent before arriving for its final installation here at the Academy.

Dr. Bettelheim will discuss the creation of this spectacular exhibit, and how it reflects the diversity of the people and cultures of the Caribbean. She will describe the field-work she has conducted in the Caribbean since 1975, focusing on Afro-Caribbean culture and festi-

Caroline Kopp



vals. "One of the most challenging aspects of curating *Caribbean Festival Arts* was translating outdoor festivals into static indoor installations, all the while maintaining the integrity of the original celebration and looking beyond the fun of the festival to its rootedness in Caribbean history."

TICKETS—MEMBERS \$5/NON-MEMBERS \$7

"LIFE IN A JUNGLE TREE HOUSE" WITH DR. DONALD PERRY WEDNESDAY, OCTOBER 21, 7:30 PM

Dr. Donald Perry is known for his daring exploration of the Central American tropical rainforest canopy. In the treetops of this special world, Perry built a 4 x 8 ft. wooden research platform and a network of ropes—a giant web—to explore the mysteries hidden in this arboreal kingdom. His work has drawn worldwide attention to the need for rainforest preservation and has been featured in TV specials by National Geographic and NOVA.

In this slide-illustrated lecture he will discuss his special design as well as the beauty and mystery of the treetops.

TICKETS—MEMBERS \$5/NON-MEMBERS \$7

THE ALLEN O'BRIEN MEMORIAL LECTURE— "THE EVOLUTION OF HUMAN REASONING INSTINCTS"

THURSDAY, NOVEMBER 5,
RECEPTION 6 PM, LECTURE 7:30 PM

Presented by the California
Academy of Sciences and the
L.S.B. Leakey Foundation

Join scientists John Tooby and Leda Cosmides to explore a new way of looking at human reasoning and learning.

In what amounts to an evolutionary "critique of pure reason," scientists are discovering that the human mind contains a collection of specialized information-processing programs that evolved in the Pleistocene to solve the adaptive problems that our hunter-gatherer ancestors regularly faced. Problems such as mate choice and language acquisition can be thought of as "reasoning instincts," because they regulate how people reason about these topics. These "reasoning instincts" often create similarities in thought and behavior across human cultures.

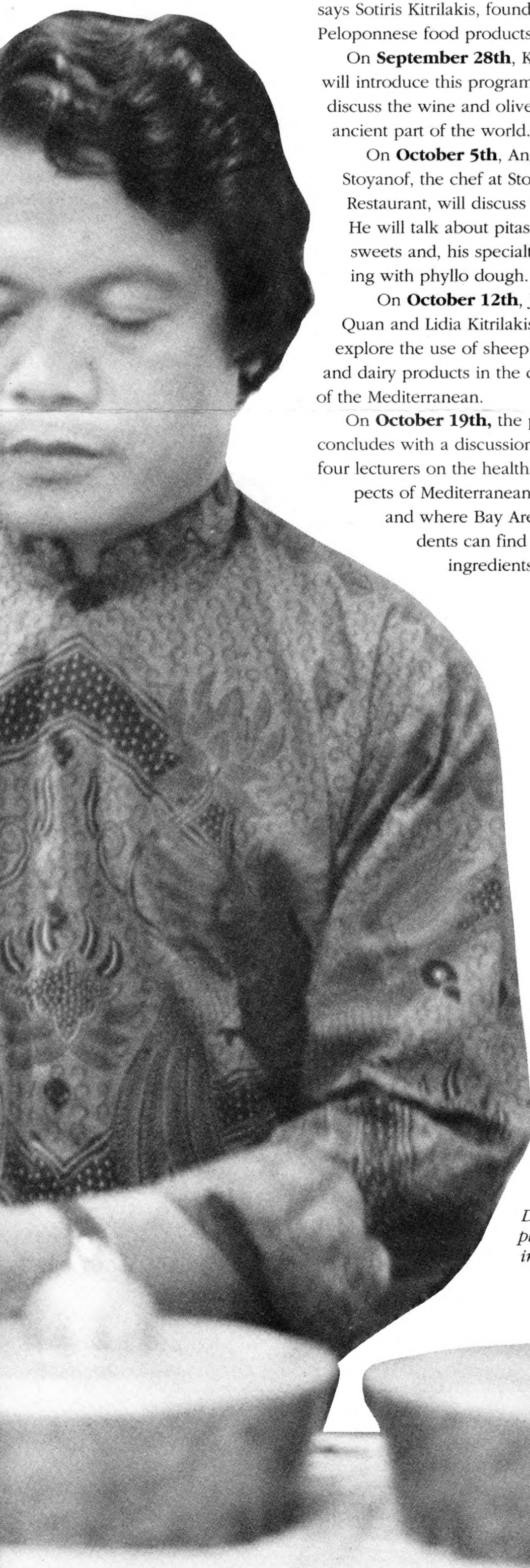
A reception for this special program starts at 6 pm in *Life Through Time*.

RECEPTION & LECTURE TICKETS—
MEMBERS \$30/NON-MEMBERS \$35;

LECTURE ONLY—MEMBERS \$5
NON-MEMBERS \$7

Additional Arts pro-
Morrison Audito-
more information.

Appalachian
and bollering,



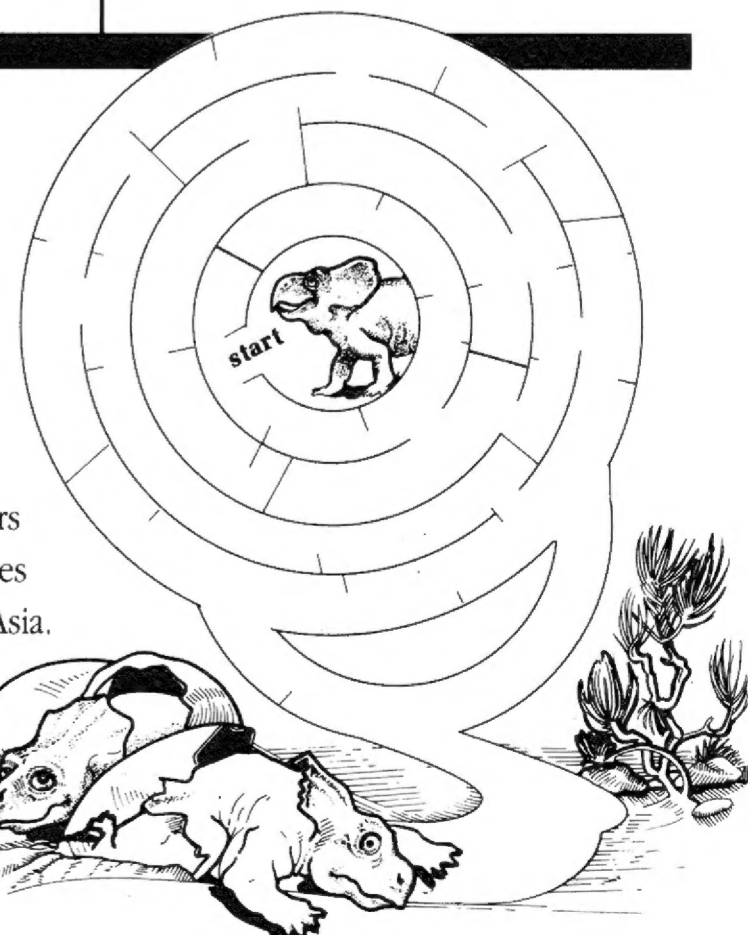
Jerome Academia

Danny Kalanduyan
playing kulingtang
instruments.

KID'S CORNER

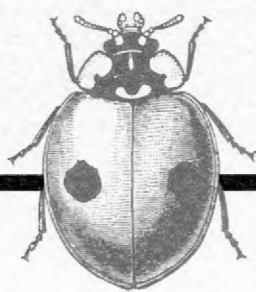
HELP A PROTOCERATOPS MOTHER FIND THE WAY HOME TO HER NEST!

This horned dinosaur, a relative of Triceratops, lived 80 million years ago. Fossil nests with eggs, babies and adults have been found in Asia.



and music, food and special activities will be featured from 5-8 pm. For more information call 750-7007.

CALENDAR



SEPTEMBER

WEDNESDAY 2 Free First Wednesday, 5-8 pm Lecture, "Between Earth and Sky," 7:30 pm SATURDAY 5 Volunteer Day at Pepperwood TUESDAY 8 Regular Academy hours resume, 10 am-5 pm WEDNESDAY 9 Members Meetings, 2 & 7:30 pm THURSDAY 10 Members Meetings, 7:30 pm

SATURDAY 12 Traditional Arts, 1 pm FRIDAY 18 New Sky Show Opens, "Planetarium on Parade" SATURDAY 19 Traditional Arts, 1 pm TUESDAY 22 Universe Series, "Astronomy & Ritual in the Andes," 7:30 pm SATURDAY 26 Traditional Arts, 1 pm MONDAY 28 "Mediterranean Foods and Wines," 7-9 pm

OCTOBER

MONDAY 5 "Mediterranean Foods & Wines," 7-9 pm TUESDAY 6 Universe Series, 7:30 pm THURSDAY 8 Lecture, "Food for the Gods," 7:30 pm SATURDAY 10 Volunteer Day at Pepperwood MONDAY 12 "Mediterranean Foods & Wines," 7-9 pm

WED/THURS 14/15 Members Open House, 6-9 pm MONDAY 19 "Mediterranean Foods & Wines," 7-9 pm TUESDAY 20 Lecture, "Moving the Streets Indoors," 7:30 pm WEDNESDAY 21 Lecture, "Life in a Jungle Tree House," 7:30 pm



Caroline Kopp

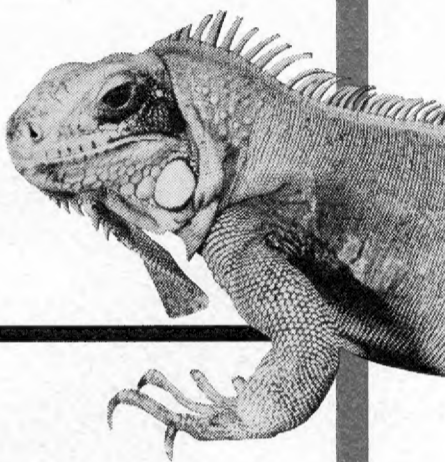


THE ACADEMY STORE

Out of This World Gifts!

Venture to another world with our exclusive Astronomy Series designed by Morrison Planetarium artist Lynette Cooke:

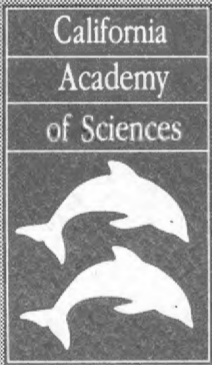
- Mug Set or Single Galaxy, Comet, Saturn or Earth Mug
- Boxed Astro Note Cards
- 500-Piece Astronomy Puzzle



SPECIAL OFFER FOR MEMBERS

The physicist Stephen Hawking has made major scientific discoveries and his book, *A Brief History of Time*, sold over five million copies. Now, Stephen Hawking's life and work are revealed in the critically acclaimed film, "A Brief History of Time," which describes his work on black holes, the "big bang," and the nature of time. This award-winning film is now coming to the Bay Area, and Academy members can bring this announcement (xeroxes not accepted) to participating theatres to receive a discount. Starting September 8th and through the end of September, **clip this ad** and get two full admission tickets for the price of one at these theatres: Sunday through Thursday at Landmark's Lumiere in San Francisco, and Landmark Theatres in Palo Alto; Monday through Thursday at Pacific Theatres in Berkeley; or purchase one ticket for \$3.50 Monday through Thursday at the Camera Theaters in San Jose.

MEMBER NAME _____ ADDRESS _____



California Academy of Sciences
Golden Gate Park
San Francisco, CA 94118-4599

VISITOR SERVICES:

The Academy is open every day of the year from 10 am to 5 pm.
Academy Information: 750-7145
Academy Store: 750-7330
Admissions: 750-7159
Adult Education: 750-7098
Aquarium: 750-7247
Biodiversity Resource Center: 750-7361
Development Office: 750-7216
Education Office: 750-7097
Group Information: 750-7043
Junior Academy: 750-7100
Laserium: 750-7138
Lectures: 750-7128
Lost and Found: 750-7150
Membership Office: 750-7111
Planetarium: 750-7141
Planned Giving: 750-7216
Security: 750-7000
Special Events: 750-7219
Switchboard: 221-5100
Travel: 750-7348
Volunteer Services: 750-7154

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LECTURES				EXPLORING THE UNIVERSE	
	Qty/Members	Qty/Non-members	Total	Quantity	Total
MEDITERRANEAN FOODS Four Mondays	_____ x \$60	_____ x \$70	= _____	ASTRONOMY IN THE ANDES September 22	_____ x \$2 = _____
FOODS FOR THE GODS October 8	_____ x \$5	_____ x \$7	= _____	HST: BACK FROM THE DEAD October 6	_____ x \$2 = _____
MOVING THE STREETS INDOORS October 20	_____ x \$5	_____ x \$7	= _____	SETI: THE SEARCH BEGINS November 17	_____ x \$2 = _____
LIFE IN A JUNGLE TREE HOUSE October 21	_____ x \$5	_____ x \$7	= _____	JOURNEY TO THE RED PLANET December 15	_____ x \$2 = _____
EVOLUTION OF HUMAN REASONING November 5				TOTAL \$	_____
Lecture & Reception	_____ x \$30	_____ x \$35	= _____		
Lecture only	_____ x \$5	_____ x \$7	= _____		
TOTAL \$			_____		

PAYMENT METHOD

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Card# _____ Exp. Date _____

Signature _____

MAKE CHECKS PAYABLE TO: California Academy of Sciences and mail with form to:
Membership Office, Ticket services
California Academy of Sciences
Golden Gate Park, San Francisco, CA 94118

Daytime Phone _____

TOTAL PAYMENT ENCLOSED \$ _____ PLEASE INCLUDE A SELF-ADDRESSED, STAMPED ENVELOPE FOR EACH SERIES FOR WHICH YOU SUBSCRIBE. NO REFUNDS/NO EXCHANGES.